ABSTRACT

A MODULAR ARCHITECTURE FOR THERMAL CONTROL IN A SPACECRAFT

Equipment (20, 20a) includes at least one electronic module (21) for the payload or the platform of a satellite (50) adapted to be supported by a structure (24) of said satellite, the satellite structure including a heat transfer system (44, 10) for transporting dissipated heat to a radiator (51).

According to the invention, the equipment includes at least transfer means (22, 30, 31, 34, 341-345) for transferring heat dissipated by the electronic module and connector means (26, 34, 35, 37) for connecting said transfer means to said heat transfer system (10) of the structure in such a manner as to enable the supply of heat exchange fluid (16) to said transfer means and the transfer of heat dissipated by the electronic module to the radiator.

The invention also relates to a satellite structure, an arrangement of equipments, and a communication system for satellites.

Particular application to the new generation of satellites with electrical propulsion.

Figure to be published for the abstract: Figure 4.